

PATENT SPECIFICATION



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388,971

Complete Left: July 6, 1932.

Complete Accepted: March 9, 1933.

PROVISIONAL SPECIFICATION.

Improved Construction of Cigarette, Cigar, Match or like Cases or Cartons.

We, LEON PIORNIK, of 5, Tufnell Park Road, London, N.7, Polish Nationality, and WALTER TUCKER, of 17, Grafton Road, London, N.7, British Subject, do hereby declare the nature of this invention to be as follows:—

According to the invention, the case or carton consists of an inner case slidable in an outer case, which latter is made preferably oblong in cross section and on one side thereof we form a slot or slots and to one or opposite edges of the open mouth portion we hinge a lid or cover, or half lids or covers.

The inside portion is constructed as a case and has a sliding fit inside the outer case but is not so deep as the outer case, and on one side we position a projecting piece or strip which passes through the slot or slots in the outer casing whilst the opposite side or both sides is or are connected by strips with the lid or cover or half lids or covers in such a manner that when the inside case is at the bottom of the outer case the lid or cover or half lids or covers is or are closed, and on a movement of the inside casing by action on the piece projecting through the slot or slots in the outer case or by pressure on the bottom of the inside casing, the strips will lift the lid.

The cigarettes, cigars, matches or other articles are positioned in the inside case and project above the open end or top thereof, but are wholly contained within the outer casing and on a movement of the inner casing to open the lid the tops of the cigarettes or other articles will be exposed to enable them to be readily got at.

The case can be made in any material and the projecting piece or strip of the inner casing may be provided with means to hold the lid closed under ordinary conditions or the slot in the outer case may be provided with a recess, which the projecting piece can engage to enable the projecting piece to hold the lid closed until operated by hand.

In constructing such a device as a carton for holding cigarettes, the outer casing and lid may be made in one single blank, shaped and creased to form the

back and front, sides, lid or half lids and bottom if required, and after folding, the sides may be connected together, as also the bottom if required, a slot or slots in parallel being made at the desired part of say the front.

The inside case is also formed from one blank cut and creased to form the front, back, sides and bottom, and from the top edge of the back extend one, two or more strips, whilst at the front at a part corresponding to the slot in the outer casing we affix the projecting piece or strip, such affixture preferably being, in one case by making three slits in the front, side by side and taking a short strip and folding it in two and passing it the required distance through the centre slit and then passing the ends through the outer slits and this will hold the projecting piece in position and easy of insertion into the slot of the outer case to project therefrom, or by forming two slots in the side of the inner casing coinciding in position with two longer slots in the side of the outer casing when by passing the ends of the strip through the two slots in each casing and pressing the centre portion on the piece between the slots in the outer casing and connect or secure the ends of the strip to inside the inner casing. The ends of the strip or strips from the back are connected to the lid or half lid next to the creased line or lines for opening and closing the lid during the movement of the inner case.

The slot or slots in the outer case limit the movement of the inner case.

The lid or half lids may be hinged to the longer sides of the carton or to the narrower sides as desired, the connection with the inner casing being made accordingly and the connection between the inner casing and the lid or half lids may be by a separate attachment or attachments.

Dated this 28th day of May, 1932.

H. GARDNER & SON,
Chartered Patent Agents,
173-4-5, Fleet Street, London, E.C.4,
Agents for the said Applicants.

be. Packg - Opening mechanism

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COMPLETE SPECIFICATION.

Improved Construction of Cigarette, Cigar, Match or like Cases or Cartons.

We, LEON PIORNIK, of 5, Tufnell Park Road, London, N.7, Polish Nationality, and WALTER TUCKER, of 17, Grafton Road, London, N.7, British Subject, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 This invention relates to cases for containing cigarettes, cigars, matches and other similar articles of the classes in which the inner case is slidably moved within an outer case, and a lid hinged to either case is opened and closed by means connecting it and the outer case on movement of the inner case.

In one class of such devices the inner case carries a rigid link pivotally connected thereto, and slidably or pivotally connected to a lid at about its central part, such lid being hingedly connected to the outer case, and whereby on the movement of the inner case, the rigid link will open or close the lid in accordance with the direction of movement. In another class the hinged lid of the outer casing is connected to the inner casing at its outer edge by an elastic strip, whereby on movement of the inner case to open the lid and expose the contents, the elastic strip is stretched and the lid opened by pressure of the inner case against same, and on a release of the inner case, the elastic strip will lower the inner case and close the lid.

In another class, a stud on the inner case projects through a slot in the outer case, the inner case having one or two lids or covers carrying extensions hinged thereto, and controlled by springs which act upon the lid or lids and open same when the inner case is moved in one direction by means of the stud, and are put in tension when the inner case is moved in the other direction to act upon the extensions to close the lid or lids.

In another class the inner case made from one or two blanks is provided with a lid or lids forming part of the side and end walls of same and hinged thereto, the inner case with the lid or lids being slidably within the outer case and each lid is connected by a thin flexible strip with the inside of the outer case at about the centre thereof and foldable therein so that on pushing the inner case a lid

becomes projected from the outer case, and by a further movement the strip will be tensioned and acting on the lid will open same, and on a return movement of the inner case the lid will be enclosed in the outer case with the portion of the strip between its fastening point to the outer case and the lid lying in a folded condition between the two cases.

According to this invention, the case or carton consists of an inner case slidably in an outer case, each constructed from a separate blank or combined in one blank and made preferably oblong in cross section with a lid or cover, or half lids or covers hinged to one or opposite edges of the open mouth portion of the outer case, the inner case having strips connectable to the lid or lids of the outer case or formed therewith.

The inside portion is constructed as a case and has a sliding fit inside the outer case but is not so deep as the outer case, and has its opposite side or both sides provided with strips which are connected with the lid or cover or half lids or covers in such a manner (preferably next to the hinge of the lid or each half lid) that when the inside case is at the bottom of the outer case the lid or cover or half lids or covers is or are closed, and on a movement of the inside casing the strips will lift the lid.

In some cases we may form a slot or slots on one side of the outer case, and on one side of the inner case position a projecting piece or strip which passes through the slot or slots in the outer casing, and which can be used for manipulating the inner case.

The cigarettes, cigars, matches, chocolates or other articles are positioned in the inside case and project above the open end or top thereof, but are wholly contained within the outer casing and on a movement of the inner casing to open the lid or lids the tops of the cigarettes or other articles will be exposed to enable them to be readily got at.

The case can be made in any material, preferably cardboard, and the projecting piece or strip of the inner casing may be provided with means to hold the lid closed under ordinary conditions or the slot in the outer case may be provided with a recess which the projecting piece can engage to enable the projecting piece to

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hold the lid closed until operated by hand.

The invention will be clearly understood from the following description aided by the examples shown on the annexed drawings in which:—

Figure 1 is a front view of a case or carton in the closed condition.

Figure 2 is a section on the line II, II of Figure 1, and showing two cigarettes in position.

Figure 3 is a top view of the case or carton shown in Figure 1.

Figure 4 is a section on the line IV, IV of Figure 1.

Figure 5 is a similar view to Figure 2, but showing the case or carton open and showing two cigarettes exposed. In these Figures only a single lid or cover is shown.

Figure 6 is a plan of a blank of the outer case of the construction shown in the previous figures.

Figure 7 is a plan of a blank of the inner case of the construction shown in Figures 1 to 5.

Figure 8 is a front view of a modified construction of case or carton in the closed condition.

Figure 9 is a section on the line IX, IX of Figure 8.

Figure 10 is a similar view to Figure 9, but showing the case or carton open.

Figure 11 is a section on the line XI, XI of Figure 8.

In these Figures, two lids or covers are shown, one overlapping the other.

Figure 12 is a plan of a blank of the inner case shown in Figures 8 to 11.

Figure 13 is a plan of a blank (slightly reduced) of the outer case shown in Figures 8 to 11.

Figure 14 is a longitudinal section of a further modified construction of case or carton in the closed condition.

Figure 15 is a similar view to Figure 14, but showing the case or carton in the open position.

Figure 16 is a transverse section of Figure 14.

Figure 17 is a plan of a blank for enabling the inner and outer case shown in Figures 14 to 16 to be constructed from one piece and with the two lids or covers meeting.

In constructing such a device as a case or carton with a single lid the outer casing and lid may be made in one single blank as at Figure 6, shaped and creased to form the back 1 and front 2, sides 3, 4 and flap 5 and lid 6 and bottom if required, and after folding the flap 5 may be connected to inside the back 1 to secure all together as also the bottom if required, a slot 7 being made at the desired part of say the front 2.

The inside case is also formed from one blank Figure 7 cut and creased to form the front 8, back 9, sides 10, 10 and 11, 11 and bottom 12. and from the top edge of the back 9 extend one, two or more folding or other strips 13, 13, whilst at the front 8 at a part corresponding to the slot 7 in the outer casing we affix the projecting piece or strip 14, such affixture preferably being by making three slits 15, 16, 17 in the front 8, side by side and taking such strip 14 and folding it in two and passing it the required distance through the centre slit 16 and then passing the ends through the outer slits 15, 17 and this will hold the projecting portion of the piece 14 in position and easy of insertion into the slot 7 of the outer case Figure 6 to project therefrom, as will be clearly understood from Figure 4; or as in the blanks shown at Figures 12 and 13, by forming two slots 15, 17 in the front 8 of the inner casing and a recessed portion 2^a having at opposite edges two longer slots 7, 7^a in the front 2 of the outer casing, by passing the ends of a strip 14 through the two sets of slots 7, 7^a and 15, 17 the centre portion of the strip 14 will be exposed in front of the outer casing and by securing the ends of the strip 14 to inside the inner casing the two cases will be connected (see Figures 9, 10 and 11). The ends of the strip or strips 13 from the back 9 are connected to the lid 6 in such a manner as to allow of the opening and closing of the lid 6 during the movement of the inner case.

The slot 7 or slots 7, 7^a in the outer case limit the movement of the inner case.

In constructing the case or carton with two half lids or covers the back 1 of the outer case has a half lid 6, which does not reach completely across, and the front 2 is also provided with a half lid 19 which is narrower than the half lid 6, as will be seen from Figure 13, and one lid 6 overlaps the half lid 19 when closed, but both half lids may be made of equal width so that when closed their edges meet and the blank of the inner case (see Figure 12) is constructed similar to Figure 7, but the front 8 is also provided with foldable strips 20, 20 for connection to the half lids 19.

Figure 17 illustrates a single blank from which the outer and inner case and half lids can be formed.

In this construction the blank is cut and creased with the outer case formed by the back 1, front 2, sides 3, 4 and flap 5 in the same horizontal line, whilst the inner case and half lids are formed from two portions positioned at a distance apart and extending at right angles from the horizontal portion, these extensions being

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creased in lines.

- In assembling the various parts, the half lids are formed from the portions 21, 22, 21, 22, each pair folded and cemented together, the strips 13 are formed from a foldable portion, those in one extension connecting the back 9, and those in the other extension the front 8, these being provided with a flap 23, 24.
- After cementing the portion 21, 22 in each extension together, the horizontal portion is folded down at the crease lines 25, 26 on to the front and backs 8, 9 of the inner casing.
- The horizontal portion is then folded on the crease lines 27, 28, so that the back and front 1, 2 are parallel, the portion 23, 24 forming the bottom of the inside case are then folded on their crease lines 23, 24 and cemented together to form the inside casing which in this instance is without sides. The side 4 and flap 5 are then bent, and the flap 5 cemented to the back 1 on the inside thereof. The strip 1' is then applied as with the other constructions, and the article is complete.
- The foldable strips 13 in this case extend across the inner case on both sides and the half lids meet.
- If desired, the inner casing may be made with one or both sides by forming foldable flaps 10, 11 as in Figure 12.
- The lid or half lid may be hinged to the longer sides of the carton or to the narrower sides as desired, the connection with the inner casing being made accordingly and the connection between the inner casing and the lid or half lids may be by a separate attachment or attachments.
- We may dispense with the slot or slots in the wall of the outer case and the projection or strip on the inner case, in which case the bottom of the outer case would be open and the inner case would be moved

upwards by pushing with the thumb or finger from underneath and a tab or finger hole could be formed or attached to the bottom of the inner case for pulling back the inner case to the closed position.

Having now particularly described and ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. A case or carton for carrying small articles such as cigarettes, cigars, matches comprising an inner case and an outer case, each constructed from a separate blank or combined in one blank, the outer casing being provided with a lid or half lid, and the inner case with a strip or strips for connection to the lid or half lids, whereby on the inner case being moved in the outer case, the lid or half lids may be opened or closed by the strip or strips.

2. In a case or carton as claimed in Claim 1, providing means connecting the inner and outer cases, and projecting or positionable outside the outer case for actuating the inner case.

3. A case or carton for cigarettes, cigars, matches and like articles constructed substantially as described and shown at Figures 1 to 7.

4. A case or carton for cigarettes, cigars, matches and like articles constructed substantially as described and shown at Figures 8 to 13.

5. A case or carton for cigarettes, cigars, matches and like articles constructed substantially as described and shown at Figures 14 to 17.

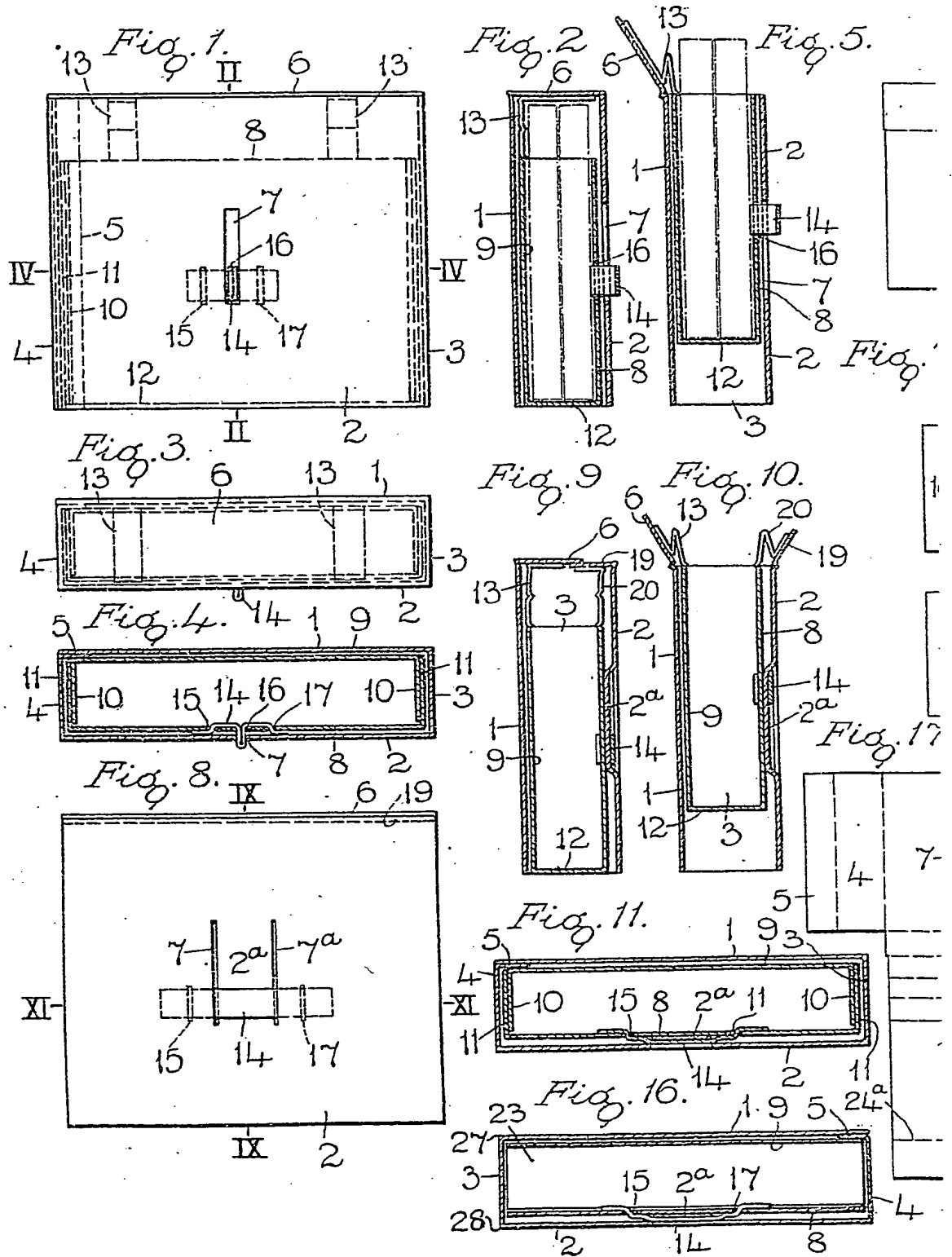
Dated this 6th day of July, 1932.

H. GARDNER & SON,
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173-4-5, Fleet Street, London, E.C.4,
Agents for the said Applicants.

Redhill: Printed for His Majesty's Stationery Office, by Love & Malcomson, Ltd.—1933.

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Fig. 5.

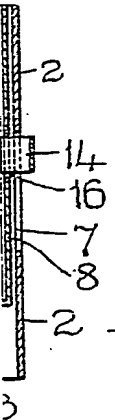


Fig. 6.

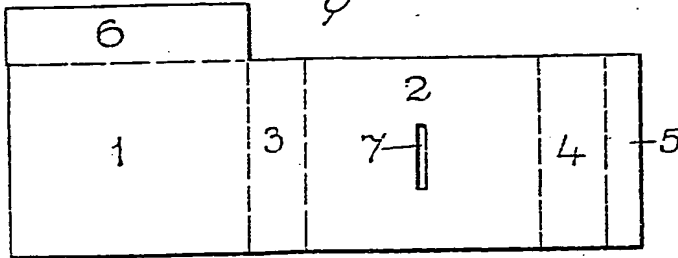


Fig. 13.

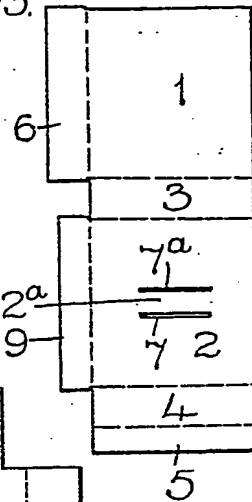


Fig. 7.

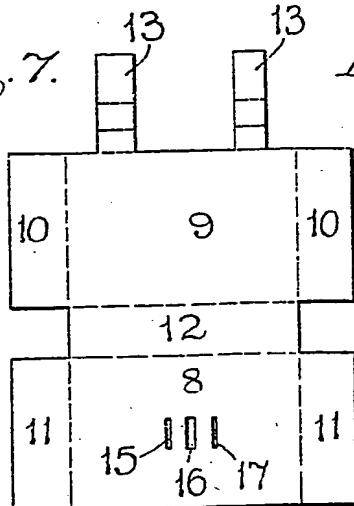


Fig. 12.

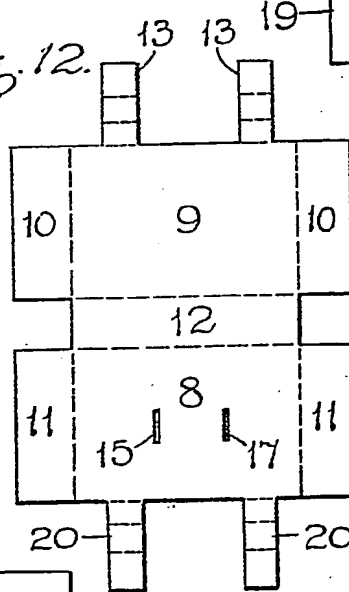


Fig. 17.

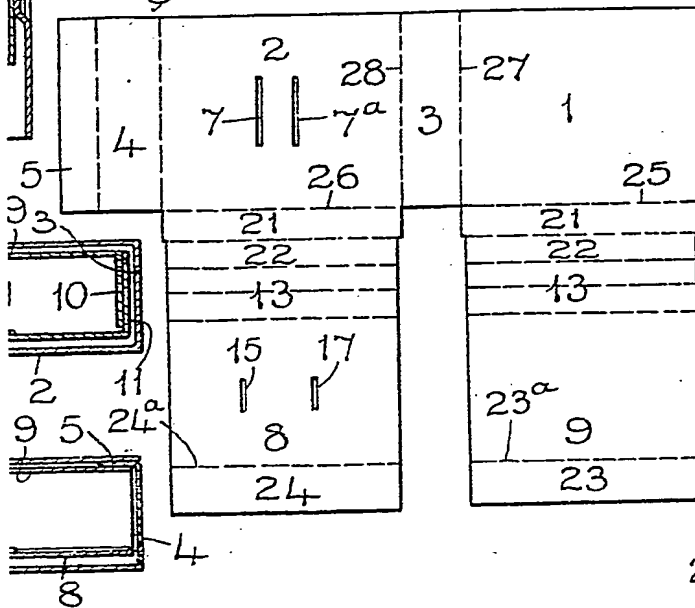


Fig. 14.

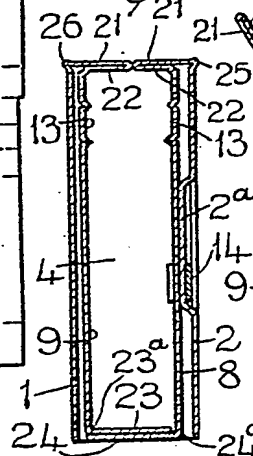
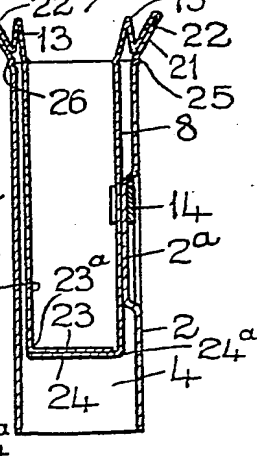


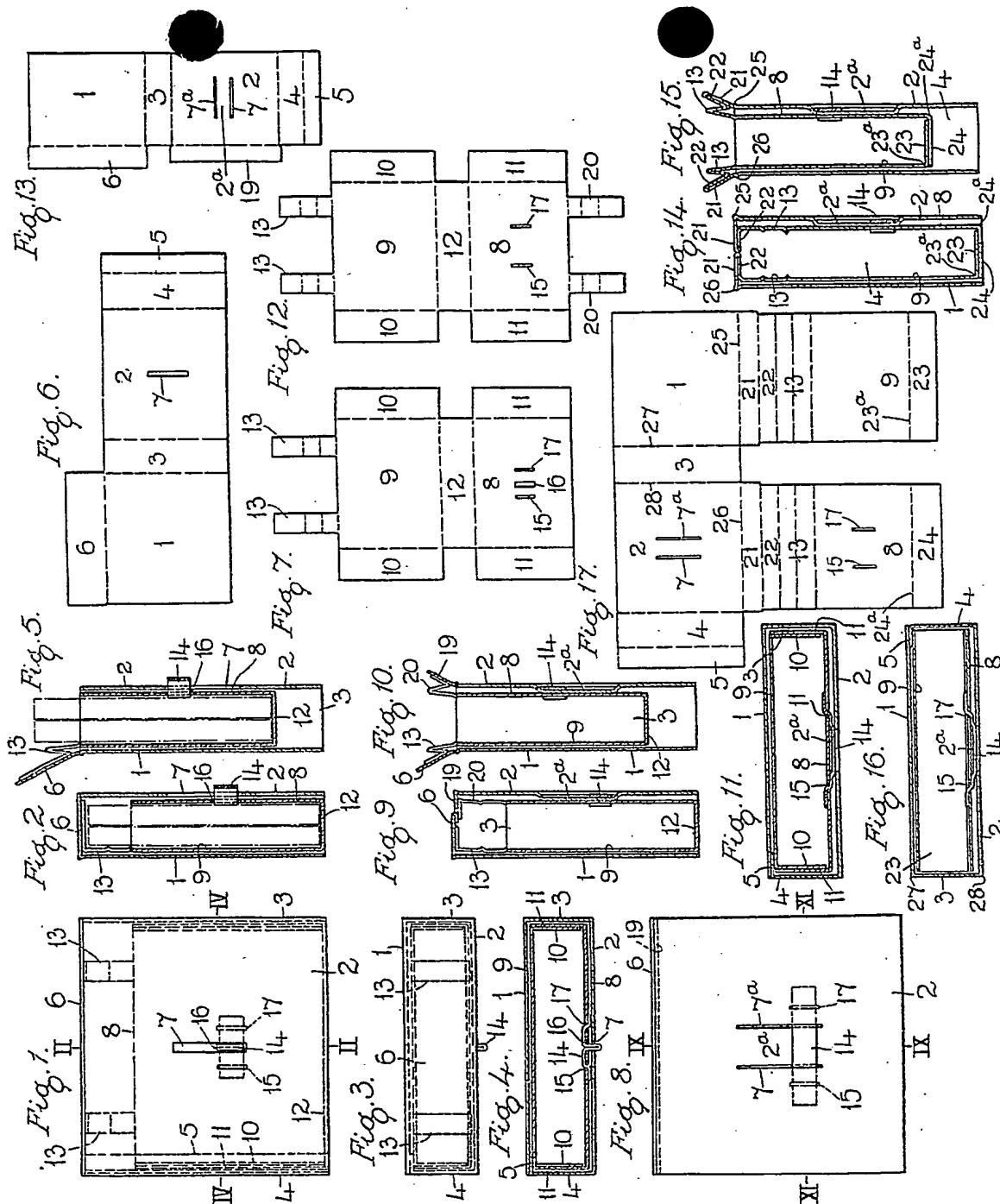
Fig. 15.



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